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Making Tracks

Making Tracks

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Thanks for all your effort and help!

Busch Conservation Area

Jim Goessling.....2900 hours Karen Staloch.....2000 hours Carol Price.....1000 hours

Rockwoods Reservation

Karen Kelly.....3200 hours George Triplett.....2150 hours Kate Edwards.....1850 hours Meg Wilson......650 hours

Powder Valley Nature Center

Charlie Anderson3400 hours
Marjorie Yamada3100 hours
Joan Hummel3000 hours
Rosemary Witte2400 hours
George Rader2200 hours
Ron Pohle1100 hours
Charlie Gentry600 hours
Susan Hussey500 hours
Edward Liesenfeld400 hours
Mary Hittler300 hours
Rose Evans200 hours

August A. Busch Memorial Conservation Area Powder Valley Conservation Nature Center Rockwoods Reservation



Missouri Conservation Frontiers

"I give my

pledge as an

American to save

and faithfully

defend from waste

of my country – its

the natural resources

soil and minerals.

its forests, waters

and wildlife."

By Tamie M. Yegge, Nature Center Manager

hese are the words that mark the beginning of a journey into learning about conservation. Summer is a great time for your entire family to get started. Pack your bags! You'll travel through various levels of achievement, earn awards and help protect our natural resources all at the same time. By signing your pledge, you become a Conservation Pioneer. As you start out, your journey could look something like this:

Monday

Visit the park and list the bird species that I see. Then draw them in my journal – 20 points each.

Tuesday

Go to the zoo to study species native to Missouri. Record interesting facts in my journal – 150 points for 15 species.

Wednesday

In my back yard, learn the names of five Missouri trees. Make bark and leaf rubbings for each -100 points.

Thursday

It's raining outside, but that's ok! Plant and care for a terrarium with at least five different species – 200 points.

Friday

Watch the wildlife in my backyard at feeders or birdbaths. Draw and color each animal visitor – 20 points for each animal.

Weekend

It may be time for some yard work. Build a brush pile out of all those bush trimmings to provide cover for wildlife – 100 points.

WOW! Your weeklong journey has earned you more than 700 points in the Missouri Department of Conservation's Missouri Conservation Frontiers Program. You didn't even have to pay for a hotel! In addition, you only need 300 points more to become a Conservation Tracker!

The Missouri Conservation Frontiers program is available free to all Missouri residents. Anyone can participate, but children under 18 need to have an adult sponsor (who gets to earn points too!). You'll receive a Program Guide to track your points while doing more than 130 different activities, including nature walks; plant and animal studies; forestry, aquatic and agriculture studies; helping wildlife; harvesting fish and wildlife; and recycling.

As points are recorded and submitted, you become eligible to receive awards. The final award is the most special: The Missouri Conservationist award. Those who reach 30,000 points will get a plaque with a limited edition print signed by the artist. Now THAT sounds like a long journey! If you think about it though, conservation should be an everyday part of our lives if we care enough to have these resources in the future.

If you'd like to join us in the journey, write to: Outreach and Education Division, Missouri Department of Conservation, P.O. Box 180, Jefferson City, MO 65102-0180 and ask for a leader's packet. Hopefully, we'll see you down the road!

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Powder Valley Conservation Nature Center

The Summer of 1803

By Janice Starke, Interpretive Programs Supervisor

Two hundred years ago this month, our country doubled its size by purchasing more than 820,000 square miles of land from the French for \$15 million. This incredible bargain — the Louisiana Purchase — was the largest area the U.S. has ever acquired.

This was good timing. Meriwether Lewis was deep in the midst of preparing for the Lewis and Clark Expedition to explore this territory. This became more urgent, more important and easier to justify because the land now belonged to the U.S. Americans wanted to know about their purchase: its rich resources, boundaries and people.

Summer of 1803 was a busy time for Lewis. He obtained and transported supplies, recruited three prospective crew members, bought a pirogue — a flat-bottomed, plank-sided boat — for the trip and paid \$20 for a Newfoundland, a large black breed of dog that loves the water. "Seaman," as the dog was named, became a member of the expedition.

But Lewis' most challenging and frustrating project was the keelboat. He had contracted by mail or courier with a Pittsburgh boat builder, specifying a completion date of July 20. When Lewis arrived in Pittsburgh on July 15, though, he found that the boat wasn't anywhere near completion. In addition to being the only keelboat builder for hundreds of miles, the boat builder happened to be a drinking man. He did not work most mornings. When he did work, he frequently quarreled with his crew, sometimes causing them to quit.

Finally on August 31 — six weeks late — the last nail was hammered into the planking. The keelboat was finished! It was 55 feet long and 8 feet wide midship. Its 32-foot-tall mast, hinged at the base so it could be lowered, supported a large square sail. In addition to 27 men (of a final crew of almost four dozen), the boat could carry 12 tons. The remaining crew members traveled in two pirogues.

The keel boat had no real name. Lewis and Clark referred to it as "the Barge" or "the Big Bateau."

Celebrate the 200th anniversary of the keelboat at our Barge Birthday!
11 a.m. – 5 p.m. Saturday, August 2

Bring friends and family out to Powder Valley to help us celebrate "the Barge." Find out about the key role it played in the success of this adventure. Tour our ½-size keelboat. Meet its builder and view his presentation on boat building. Crafts, games, activities, contests, food and stories will round out the day. No reservations are necessary.

veled in two pirogues.

e" or "the Big Bateau."



Resident Artisan

JUDE DROESCH Corn Husk Wreath Making Workshop Saturday, July 12, from 10 a.m. to Noon

Join Jude Droesch in her workshop as she teaches the art of making wreaths from corn husks. A passionate interest in the crafts of women who opened the West from the mid-18th century through the end of the 19th century is the driving force behind Ms. Droesch's interest in the many uses of corn husks. Her research has led her from learning about the many practical uses of corn husks to making utilitarian, as well as playful, objects such dolls and wreaths. Ms. Droesch gives demonstrations at St. Louis County Parks, Living History and Girl Scout events. Reservations are required to attend the workshop. Please bring a towel. All other supplies will be provided. (Reservations begin June 27.)

11715 Cragwold Road Kirkwood, MO 63122 (314) 301 - 1500

LOCATION:

From I-44 east in Kirkwood, take Watson Road, exit and turn north on Geyer Road. Follow Geyer Road 200 yards to Cragwold Road. Go 1 mile west on Cragwold Road.

AREA HOURS:

Daylight Saving Time: 8 a.m. to 8 p.m. Central Standard Time: 8 a.m. to 6 p.m.

NATURE CENTER HOURS:

Open all year, 7 days a week, from 8 a.m. to 5 p.m.

GIFT SHOP HOURS:

Open all year, 7 days a week, from 8 a.m. to 4:30 p.m.

ABOUT THE AREA:

112 acres of forestland and winding creeks, three hiking trails (one wheelchair accessible). Open to visitors free of charge.

Dragons of Air and Water If you have a pond or stream nearby, you have an excellent resource to observe dragonflies with your students. Both adults and the state of the stat

By Steven Juhlin, Conservation Education Consultant

The Educators' Niche

Making Tracks

resource to observe dragonflies with your students. Both adult and larval dragonflies provide fascinating examples of unique insect characteristics and strategies.

Resembling miniature insect helicopters, dragon-

flies are proficient predators. Long tails and independently moving wings allow them to move quickly in all directions, hover in place and fly more than 30 miles per hour. They have large, compound eyes made of thousands of ommatidia (or lenses). Their powerful legs and jaws enable them to catch and eat prey in flight.

July 2003

Although we're most familiar with the adults, dragonfly larvae, called "naiads," are just as interesting. Naiads have powerful, hinged jaws with serrated lower lips that extend quickly to grab prey such as other insect larvae, tadpoles, or small fish. Dragonflies shed their exoskeleton (skin) several times before becoming adults. When a naiad is ready to transform to adulthood, it crawls out of the water onto a plant, log, or rock and sheds one last time. The dragonfly's abdomen inflates and blood flows into its wings, which slowly unfold, dry and stiffen.

Observing dragonflies in the field can be fascinating and is a growing hobby. A pair of binoculars allows the observer to watch behaviors more closely and is essential for identification. If students move slowly, the dragonflies will stay in the area and continue their habits. Students can observe feeding on the wing, avoiding predators, territory displays, mating and even egg-laying.

Allow students to collect aquatic insects from the water with nets and place them in a shallow pan of water.

Students can compare movement and other characteristics of the aquatic insects collected. If you capture a dragonfly naiad, use a pair of forceps to gently tug on the lower lips to show students how the naiad feeds. As students walk the edge of the water, have them look for shed exoskeletons.

One of the most interesting characteristics of dragonfly naiads is their use of jet propulsion for locomotion. Naiads take water into their abdomen and shoot it out the hind end explosively, both to escape from predators and to dart after prey. Demonstrate this by bringing some naiads home or back to the classroom. Fill an aquarium or dish with several centimeters of silty water and allow the silt to settle. Place one or more naiads into the water and then prod them gently. For a quick escape, they'll use their powerful jet propulsion and the stream of water will make the silt move. You may wish to introduce some prey items (such as other aquatic insects) and watch the dragonfly naiads feed. Be sure to return the organisms back to the water or take appropriate measures to keep them alive in captivity.

Missouri is home to at least 65 species of dragonflies, including the federally endangered Hine's emerald dragonfly. The Hine's emerald prefers wetland habitats like fens, cedar swamps and wet meadows.

Here's a blast from the past!



A 1925 St. Louis resident hunting & fishing license could be purchased for \$1!

"Today I saw the dragon-fly
Come from the well where he did lie...
Thro' crofts and pastures wet with dew
A living flash of light he flew"
- Alfred Lord Tennyson



Opportunities, Education, Instruction and more!

www.conservation.state.mo.us/areas/stlouis/fish







The Outdoor Teacher Education Resource Center

Hours:

Monday - Friday 8 a.m. - 5 p.m. (closed 11 a.m. - Noon for lunch) 1926 S. 12th St. St. Louis, MO 63104 (314) 231-3803

Check out these www.dragonflies.org www.hinesemeraldgallery.org www.chaparraltree.com/mn/dragonflies.shtml www.powell.colgate.edu/wda/Beginers_Guide.htm www.conservation.state.mo.us/conmag/2000/07/1.htm www.tolweb.org/tree?group=Odonata&contgroup=Pterygota

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Memorial Conservation Area

Cicadas By Shanna Raeker, Naturalist

There's no doubt that watching and listening to thousands of cicadas is an amazing experience; however, the yearly arrival of the dog-day cicadas is just as noteworthy. Most people don't give cicadas a second thought until they experience a booming hatch from one of the periodical species.

Dog-day cicadas get their name from the dog days of summer. These cicadas hatch during July and August. Before hatching, the dog-day cicada nymphs have been underground for two to four years, which is a short time compared to the 13 to 17 years the periodical cicada stays underground. Because the dog-day cicada cycle is much shorter, we don't see huge hatches like the periodical species.

Each summer, the dog-day cicadas climb to the tops of trees and begin calling for a mate. The males produce a buzzing sound that can be very loud. Each type of cicada produces a unique call and sings at a different time of day. Most people would recognize the calls of these cicadas but probably don't realize the sound is coming from a cicada.

Periodical cicadas get a lot of attention, especially when we have a large hatch, but don't forget about the dog-day cicadas. Summer just wouldn't be the same without the chorus of dog-day cicadas singing in the background. If you want to learn more about cicada calls, you can purchase a Singing Insects of Missouri cassette tape from the Missouri Department of Conservation.

Recycling

By Nancy Snider, Conservation Education Consultant

Do you want to practice conservation? Do you want to use our natural resources wisely? Then reduce, reuse and recycle!

About 60 percent of household garbage can be diverted from landfills by recycling and composting our solid waste products. We can reduce the amount of waste generated in our homes by avoiding purchasing products that are disposable, overly packaged or in non-recyclable containers. This action also helps reduce the amount of waste taking up space in our landfills. By extending the life of our landfills, we are saving land for wildlife habitat. We can reuse containers and purchase products made from recycled materials. This helps conserve energy and thus our natural resources. Recycling also reduces the amount of litter that detracts from our landscape and can harm wildlife.

- Creating aluminum from recycled cans uses 95% less energy
- The energy saved from one recycled aluminum can will operate a TV for three hours
- Throw one aluminum can out your car window and it will be there 500 years later (from Recycling Basics www.rcbc.bc.ca)

Interesting Tidbit:

In 1999 U.S. residents. businesses and institutions produced more that 230 million tons of waste. That is approximately 4.6 pounds of waste per person per day. (From US EPA Municipal Solid Waste: www.epa.gov/ epaoswer/non-hw/muncpl/ facts.htm.)

So now let's practice conservation and recycle... but how do we get started? We are very fortunate within the St. Louis Region to have a number of recycling centers. Many municipalities also offer curbside pick-up of recyclable materials. Check with your

local municipal office to find out where and what you can recycle. With a little effort to sort our trash and be aware of packaging, we can help conserve our natural resources for future generations.

To learn more about recycling and solid waste management in Missouri visit the Department of Natural Resources' website: www.dnr.state.mo.us/waste.htm

To discover a multitude of ways trash can be reused, visit Leftovers, etc. This is a combination recycling center, craft/art shop and education facility run by the Resource Recovery Project, Inc. Leftovers, etc. is located at 1759 Scherer Parkway, St. Charles. The hours of operation are: 3 – 7 p.m. Monday – Thursday and 9 a.m. – 3 p.m. on Saturday. For more information call (636) 946-9779.

2360 Highway D St. Charles, MO 63304 (636) 441 - 4554

LOCATION:

From Hwv 40, take 94 south to Hwy. D; turn west on D for approx. 1 mile. *From I-70*, take 94/First Capitol exit; turn south on Hwy. 94 to Hwy. D; turn west on D for approx. 1 mile. The area entrance is on the north side of Hwy. D.

HOURS:

Area is open from 6 a.m. until 10 p.m. See area regulations for special hunt hours. Fishing hours are from 6 a.m. until 9 p.m. Rental boats are available April 1 through September 30. The office is open Monday through Friday from 8 a.m. until 5 p.m. and Saturday and Sunday from 8 a.m. until 4 p.m. It is closed some state holidays.

ABOUT THE AREA:

6,987 acres with 32 lakes and 40 ponds totaling 526 acres of water for fishing. There are six viewing blinds (two are wheelchair accessible), seven hiking trails totaling 5 miles, picnic area, staffed firearms range, and fishing jetties (some are wheelchair accessible). The area has interpretive programs, exhibits and demonstration sites and is used by bicyclists.

July 2003 **Making Tracks**

Reservation

Matching Funds Grant Program

By Tim Reel, Resource Assistant

A little help can go a long way for local rural fire departments through a matching funds grant program. The U.S. Forest Service and the Missouri Department of Conservation have a cooperative partnership in the Federal Volunteer Fire Assistance Matching Funds Program. This grant program assists rural fire departments with funding to acquire equipment and training to better serve their communities.

A fire department may apply for the matching fund grant program by the end of February each year. To be eligible for this program they must have a current mutual aid agreement with the Missouri Department of Conservation to assist in wildland fire suppression in their area and support a local population of less than 10,000. Funding from these grants is awarded to rural fire departments for approved purchases on a 50 percent matching basis up to \$3,000.

In 2002 St. Louis AmeriCorps, DeSoto City Fire Department, Orchard Farm Fire Protection District and West Alton Fire Protection District were awarded grant funds. These funds enabled them to acquire the following necessary equipment: structural and wildland firefighting clothing, various water and foam pump units, leaf blowers, chainsaws, hand tools, fire hoses and nozzles. The 2003 grant recipients, to be awarded funds this summer, are St. Louis AmeriCorps, Goldman Fire Protection District and Hillsboro Fire Protection District.

The Federal Volunteer Fire Assistance Matching Funds Program, in cooperation with the Missouri Department of Conservation, has enabled numerous rural fire departments in the acquisition of necessary training and equipment for the purpose of saving lives, protecting property and suppressing wildland fires.

For more information about this grant program contact your local Department of Conservation Forestry Office.

Meet Shanna Raeker

Shanna is a Naturalist at the August A Busch Memorial Conservation Area. She will answer vou "Ask the Naturalist' questions.

ttention Curious Conservationists Ever wonder if bats really *are* blind? Or why some of our

native Missouri ferns remain green in the winter? Curious about the Christmas Bird Count numbers this year? Kids and adults alike are invited to write in and

Ask the Naturalist

your conservation questions! You'll not only be published in the newsletter, but you'll also receive a gift from us!

Question: Why is the endangered timber rattlesnake called timber? Jake LeBowitz, Chesterfield

Answer: Timber rattlesnakes live in heavily wooded forests. Because timber is another name for forest, it makes sense to call this snake a timber rattlesnake. The timber rattlesnake is not an endangered animal, but it's easy to see why you might think so. Timber rattlesnakes are very secretive animals. In the hot summer months, they may only come out of

Send your question to: Ask the Naturalist – Making Tracks Department of Conservation 2360 Highway D St. Charles, MO 63304

hiding at night. During the day, they stay cool by lying under a rock ledge or near a fallen log. These snakes are very well camouflaged with their brown and gray colorings. Even if you encountered one. you might walk right by without even noticing it.

2751 Glencoe Road Wildwood, MO 63038 (636) 458 - 2236

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LOCATION:

From I-44, take Hwy. 109 (Eureka exit) north 4 miles to Woods Avenue: left on Woods Avenue, and then immediately right on Glencoe Road; follow signs. From Hwy 40 (I-64), take Clarkson Road south to Manchester Road; right (west) on Manchester to Hwy. 109; left (south) on Hwy. 109, 2 miles to Woods Avenue; right on Woods Avenue, and then immediately right on Glencoe Road; follow signs. From Manchester Road, take Hwy. 109 south 2 miles to Woods Avenue; right on Woods Avenue, and immediately right on Glencoe Road; follow signs.

AREA HOURS:

Sunrise until 1/2 hour after

VISITOR CENTER HOURS:

Open seven days a week, from 8 a.m. to 5 p.m., during March, April, May, September and October. The Visitor Center will be closed on weekends during June, July, August, November, December, January and February.

ABOUT THE AREA:

All facilities are free to the public, including: *Education Center with

- exhibits and interpretive programs.
- *1,898 acres of rugged. mostly hardwood, forested land interspersed with springs and streams.
- *Three picnic areas (all with charcoal grills), two with drinking water, tables. and one with toilets.
- *Seven trails (one is selfguided and wheelchair accessible) totaling more than 10 miles.



program a How to register for

Reservations are required unless otherwise specified. Reservations will be taken Monday through Friday from 8 a.m. to 5 p.m. Programs are intended for individuals and families only. If you are unable to attend a program, please call and cancel your reservation as a courtesy to those on our waiting list. Please limit requests to two programs per month, with only one to include an Ages 3-6 program. Please be prompt. Arrival after 10 minutes may exclude you from the program. Interpreting services are available for people with hearing loss, with five days advance notice. If you are unable to attend, please cancel by calling: Rockwoods ext. 22; Powder Valley ext. 2225; and Busch ext. 307.

ROCKWOODS

For reservations, call (636) 458 - 2236

Fireflies

Wednesday 7:30 p.m. -9 p.m. (Families) Ever wonder what "turns on" a firefly? Join us to learn about these unique insects. We will catch and release fireflies and make a bug box to take home. One oug box per family. (Reservations begin June 25.)

Bats and Bat Houses

(Families) Learn about these flying insect-eaters and why they are so beneficial. We will build a bat house for you to take home! Please bring a hammer and drill; one house per family. (Reservations begin July 1.) $10 \ a.m. - 11:30 \ a.m.$ Saturday

Weeks Theme July

Become a young Rockwoods Ranger by attending our Theme Weeks

Throughout this month Rockwoods is offering a special series of programs called Summer Theme Weeks! Each week includes three 90-minute programs. For those who attend all three programs, there will be a special comprehensive competition on Friday with awards and certificates. Programs open to ages 7-14.

The Beauty Within

Capturing the beauty of nature is as easy as a click, brush stroke, or doodle. (Reservations begin June 30.)

14 Nature Photography 10 a.m - 11:30 a.m.

16 Painting 10 a.m. - 11:30 a.m.

- 11:30 a.m.– 12:30 p.m Art Show

How Did They Do It?! Lewis and Clark:

Ever wonder how Lewis and Clark were able to map their course and only be off by 45 miles, or how they made their own canoes, oars and rope, and what did they eat? Discover the answers to these questions and learn some of the same skills Lewis and Clark used to survive their journey. (Reservations begin July 7.)

- Mapping $I0 \ a.m. II:30 \ a.m.$ Native American Cultural Influence & Skills $I0 \ a.m. II:30 \ a.m.$
 - Lewis and Clark Cooking 10 a.m.
- 11:30 a.m. Lewis and Clark Adventure Race

a.m. – *12:30 p.m.* 11:30 a.m.

SHOOTING RANGE

TRAINING CENTER INFORMATION

Advanced Youth Hunter

Education Day Camp

(Ages 11-15) This advanced youth hunter education training course will include live firing with a variety of firearms, instruction on regulations, stategies, wildlife identification and more. Youth who participate in this camp must be Hunter Education certified.

\$50 Advanced Registration Required. Check or money order only made payable to the Missouri Conservation Heritage Foundation. $_{\rm of}$

AUGUST A. BUSCH RANGE

This camp is offered at the following Dept. of Conservation facilities:

3:30 p.m. JAY HENGES RANGE July 21 – 25 8:30 a.m. –

July 28 – Aug 1 8:30 a.m. – 3:30 p.m.

For reservations, call (636) 441 - 4554

For reservations, call (636) 441 - 4554

Stream Study

0&24

Thursday 9 a.m. – 10:30 a.m. & 11 a.m. – 12:30 p.m.
Thursday 9 a.m. – 10:30 a.m. & 11 a.m. – 12:30 p.m.
(Ages 7-12) Come and find out how a stream stays clean and healthy. We will discover and study the critters that help keep it that way. (Reservations begin June 26 & July 10, respectively.)

Babes in the Woods

II a.m. 10 a.m. Saturday

(Ages Birth-3) Help your "babes" enjoy nature from the comfort of their strollers. (Reservations begin June 27.)

Nature Journaling

Tuesday 7 p.m. – 8:30 p.m. (Adults) Many outdoor writers keep a nature journal and so can you! Learn how to record what you see and hear so the experience stays fresh and vibrant. Journaling materials provided. Dress for a short walk. (Reservations begin July 1.)

Herons & Egrets at MTC

(Adults) Midsummer is the time that young birds are leaving the nest. Join us at Marais Temps Clair for a 2.5-mile hike to pick up a few pointers that will help you identify these birds. (Reservations begin July 3.) $-10 \ a.m.$ 7:30 a.m.

Totally Turtles

Tuesday 9:30 a.m. – 10:30 a.m. & 11 a.m. – Noon (Ages 3-6) What animal carries its home with it wherever it goes? Turtles! We'll make a craft and take a hike to look for turtles. (Reservations begin July 8.)

Hand Print Art

(Ages 5-7) Use your hands to make your own unique artwork. It's fun, messy and always creative! (Reservations begin July 9.) 10 a.m. – 11 a.m.

Feeling Froggy

- Noon scover how Monday 9:30 a.m. – 10:30 a.m. & 11 a.m. – Noon (Ages 3-6) From tadpoles to frogs, we'll discover how these critters change! Join us for a catch-and-release frog hunt. (Reservations begin July 14.)

Weeks **Theme** July

Outdoor Skills Week

(Ages 10-16) Do you have the skills necessary to survive in the outdoors? Come try your hand at these outdoor skills. Equipment will be provided, but you are welcome to bring your own. (Reservations begin June 30.)

 $10 \ a.m. - II:30 \ a.m.$ Archery

10 a.m. – II:30 a.m. 10 a.m. – II:30 a.m. Fire Building Fishing

Hike & Bike Week

(Ages 7-12) What better way to exercise than to be outside? Join us as we explore the natural world using our feet and pedals. Your own bike, water, sturdy shoes and a helmet are required for the 25th.

II:30 a.m. 9 a.m. – II a.m. (Reservations begin July 7.)

21 (Ages 7-9) Busch Hike 10 a.m. – 11:30 a.

23 (Ages 10-12) St. Stanislaus Hike 9 a.m. –

25 (Ages 7-12) Bike the Busch Trail 10 a.m. –

11:30 a.m.

Aquatics Week

(Ages 7-12) Beat the heat and explore different aquatic environments. Please make sure to wear shoes that can get wet and muddy. No sandals please. (Reservations begin July 14.)
28 Pond Study 10 a.m. - 11:30 a.m.
30 Big River Study 10 a.m. - 11:30 a.m.

 Pond Study
 10 a.m. – 11:30 a.m.

 Big River Study
 10 a.m. – 11:30 a.m.

 Stream Study
 10 a.m. – 11:30 a.m.

For reservations, call (314) 301 - 1500

Bloomin' Story & Craft

Tuesday 10:30 a.m. – 11:15 a.m. (Ages 3-6) Join us for some blooming stories and a craft of blooms. Parent/guardian must be present. (Reservations begin June 17.)

Beginning Birding

Wednesday 10:30 a.m. – 11:15 a.m. (Ages 3-6) See why birding is such a fast-growing sport! Learn the common birds and go out on the trail. Parent/guardian must be present. (Reservations begin June 18.)

MO Tree ID

Saturday 9 a.m. – 10:30 a.m. (Adults) Walk one of the trails and identify common trees. (Reservations begin June 20 and July 11.)

Making & Using a Plant Press Lewis & Clark Craft:

Noon10 a.m. -

(Ages 7-12) Make and use a plant press, then discuss how and why Lewis and Clark collected plants. Parent/guardian must be present. No siblings allowed. (Reservations begin June 24.)

Call of the "Wild"

Wednesday 3 p.m. – 4:30 p.m. (All Ages) Explore the world of animal calls. Come prepared to close your eyes and listen! Frontiers Connection: Wildlife Calls #30. (Reservations begin June 25.)

Babes in the Woods

Tuesday 9:30 a.m. – 10 a.m. & 10:30 a.m. – 11 a.m. (Ages Birth-3) Introduce the very young to many aspects of the natural world. Parent/guardian must be present. No siblings allowed. (Reservations begin July 1.) 15 Tuesday

Gardening with Lewis & Clark

10 a.m.

(Adults) We will discuss making an educational garden with plants discovered by Lewis & Clark and hike on Broken Ridge Trail. (Reservations begin July 1.)

Lewis & Clark Herbarium

(Ages 16-Adult) Hear the story and see pictures of the plants collected during the Lewis & Clark expedition. (Reservations begin July 3.)

Hickory Ridge Trail Hike

Monday I p.m. – 2:30 p.m. (Adults) Let's hike this beautiful trail to see what birds, wildflowers and trees we can identify. Dress for the weather. (Reservations begin July 7.)

Ology Tools

Thursday 10 a.m. – 11:30 a.m. (Ages 3-6) & (Ages 7-12) Try your hand at different 'Ology tools of the conservation trade. Children must be accompanied by an adult. (Reservations begin July 10.)

Broken Ridge Trail Hike

Monday I p.m. – 2:30 p.m. (Adults) Hike this beautiful trail to see birds, wildflowers and trees. (Reservations begin July 14.) Monday

Weeks **Theme**

Activities are Monday, Wednesday & Friday, 9:30 a.m. – Noon. Parents are strongly encouraged to accompany their children.

Maze Days Week 14,16 &18

21,23&25 Kids' Outdoor Skills Week (Ages 7-12) Use naturalist "tools" to identify living things. (Reservations begin June 30.)

(Ages 10-16) Monday – Gun Safety at Jay Henges Shooting Range. Wednesday – Archery at Emmeneg-ger Park. Friday – Fishing at Walker Lake in Kirkwood Park. (Reservations begin July 7.)

(Ages 7-12) In the early 1800s, the Corps of Discovery Expedition was considered a great adventure. Become a crew member on our 1/2-size keelboat. Find how they prepared, survived and what they learned from the trip! (Reservations begin July 14.) 28,30&Aug.1 Lewis & Clark Week